

## Technical Data

### Models 123.133 (300 D-Turbo), 123.153 (300 CD-Turbo), 123.193 (300 TD-Turbo)

#### Engine

Chassis type	123.133	123.153	123.193		
Engine	617.952				
Operation	4-stroke diesel engine with MB prechamber				
Number of cylinders	5				
Cylinder arrangement	upright in line				
Bore/stroke	mm (inches)	90.9/92.4 (3.5/3.64)			
Total eff. piston displacement	cm <sup>3</sup> (cu inches)	2998 (183.0)			
Compression ratio	21.5 : 1				
Firing order	1-2-4-5-3				
Maximum engine	rpm (no load)	5200			
Engine output	SAE net bhp/rpm	120/4350 <sup>1)</sup>			
Maximum torque	SAE net lb. ft. rpm	184/2400 <sup>2)</sup>			
Crankshaft bearings	6				
Valve arrangement	Overhead				
Camshaft arrangement	OHC				
Oil cooling	Air-oil cooler, thermostatically controlled				
Engine cooling	Water circulation pump, thermostat with bypass line, viscous clutch and light alloy fan, finned tube radiator.				
Lubrication	Forced oil circulation by gear pump				
Oil filter	Combination full flow and by-pass filter				
Air filter	Air filter with paper cartridge				

1) For model year 1985      Federal 123/4350  
    California 118/4350

2) For model year 1985      Federal 184/2400  
    California 177/2400

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**Dimensions**

Length overall	mm (ins.)	4848 (190.9)	4763 (187.5)	4848 (190.9)
Width	mm (ins.)	1786 (70.3)		
Height, ready-to-drive	mm (ins.)	1438 (56.6)	1395 (54.9)	1470 (57.9)
Wheel base	mm (ins.)	2795 (110.0)	2710 (106.7)	2795 (110.0)
Track	front mm (ins.)	1488 (58.6)		
	rear mm (ins.)	1446 (56.9)		1453 (57.3)
Wheel lock	inside approx. deg.	43		
	outside approx. deg.	33		
Turning circle – min. dia. m (ft.)		11.29 (37.0)	11.0 (36.1)	11.29 (37.0)

**Weights**

Vehicle curb weight kg (lbs.)	1625 (3585)		1715 (3780)
Gross vehicle weight (GVWR) kg (lbs.)	2080 (4585)		2210 (4870)
Gross axle weight rating kg (lbs.) (GAWR) front/rear	1005/1075 (2215/2370)	995/1085 (2195/2390)	1000/1210 (2205/2665)

**Electrical System**

Battery	Voltage Capacity	12 V 90 Ah
Starter	Bosch	JF 12 V 2.3 kW
Alternator	Bosch	K1-14 V 55 A Max. output 770 W

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**Filling Capacities**

Fuel tank/reserve fuel	approx. ltr. (US gal.)	80.0/10.5 (21.1/2.3)	70.0/11 (11.5/2.9)
Initial filling	Engine oil	approx. ltr. approx. US qts.	8.5 9
Oil and filter change	Engine oil	approx. ltr. approx. US qts.	7.5 7.9
Oil pan up to markings on dipstick	Engine oil	approx. ltr. approx. US qts.	6.0/4.5 6.3/4.7
Oil filter	Engine oil	approx. ltr. approx. US qts.	1.5 1.6
Cooling system with heater		approx. ltr. approx. US qts.	12.5 13.2
Water pump			maintenance free
Brake system	Brake fluid	approx. ltr. approx. US qts.	0.5 1.1
Automatic transmission initial filling fluid change	Auto. transmission fluid (ATF)	approx. ltr. approx. US qts.	7.3/6.2 7.7/6.5
Rear axle	Hypoid oil SAE 90	approx. ltr. approx. US qts.	1 2.1
Power steering	Auto. transmission fluid (ATF)	approx. ltr. approx. US qts.	1.4 3.0
Level Control	Hydraulic Fluid	ltr. US qts.	3.5 3.7

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**Performance Data with Automatic Transmission**

Rear axle ratio	3.07		
Maximum speed in individual gears	1st gear	km/h (mph)	45 (128)
	2nd gear	km/h (mph)	69 (43)
	3rd gear	km/h (mph)	116 (72)
	4th gear approx.	km/h (mph)	165 (102)
Gradability	1st gear slip limit % (1 in)		41 (2.43)
	2nd gear	% (1 in)	41 (2.43)
	3rd gear	% (1 in)	24 (4.16)
	4th gear	% (1 in)	12 (8.33)
Acceleration through gears 0 to 100 km/h (0 to 62 mph) Load: 2 persons		sec $\pm$ 7 % <sup>1</sup> )	14
Engine rpm at 100 km/h (62 mph) in high gear			2745

**Fuel/Oil Consumption and Operating Condition**

Fuel Economy – City <sup>2</sup> )	27 mpg		
Fuel Economy – Highway <sup>2</sup> )	33 mpg		
Fuel Economy – Combined <sup>2</sup> )	29 mpg		
Engine oil consumption (max.)	Itr./100 km miles/US qt.	0.25 235	
Coolant temperature	max. temp. in working range of thermostat	approx. °C approx. °F	126 259 80 – 95 176 – 203
Fuel type	Diesel fuel according to ASTM D 975 No. 1-D and 2-D		

<sup>1</sup>) The + 7 % factor includes possible deviations from permissible engine performance and tire tolerance limits.

<sup>2</sup>) Compare this to other cars. Your mileage may differ depending on speed, weather conditions and trip length.